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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,334	02/05/2004	Roland Fulford	1912-0288P	2550

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EXAMINER

CAIN, EDWARD J

ART UNIT	PAPER NUMBER
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1714

DATE MAILED: 11/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/771,334

Applicant(s)

FULFORD ET AL.

Examiner

Edward J. Cain

Art Unit

1714

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-71 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6, 8, 10-37 and 41-70 is/are rejected.
- 7) ☒ Claim(s) 5, 7, 9, 38-40 and 71 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. ____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6, 8, 10, 11, 16-17, 53-55, 57-63 and 65-68 are rejected under 35 U.S.C. 102(b) as being anticipated by Sverdrup.

Sverdrup discloses methods of reclaiming rubber. These methods include mixing scrap rubber with reclaiming oils with heat (400 F, example 1) followed by cooling. The mixing step is taught as generating the heat and is seen as involving shear forces. Suitable rubber is taught as styrene butadiene (Buna-S) copolymer.

Claims 1-4, 6, 8, 10, 11, 14-17 and 53-68 are rejected under 35 U.S.C. 102(b) as being anticipated by Fisher et al.

Fisher et al discloses methods for reclaiming scrap rubber including EPDM. These methods include the addition of oil in amounts of up to 5% and the use of blenders which are seen as imparting shear forces and generating heat. The blender is taught as suitably operated at 3000 RPM and generating temperatures of 190 – 320 C. Particle sizes such as claimed instantly are also taught.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12, 13, 18-37 and 41-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher et al.

Fisher et al is discussed above. This reference fails to explicitly recite a separate oil addition step, process times, rotation rates and specific oils as recited in the claims rejected under this paragraph.

Regarding oil addition, it would have been obvious to one of ordinary skill in the art to add oil at any convenient point in the process depending upon the specific apparatus used.

Regarding the process times, times such as claimed would have been obvious to one of ordinary skill in the art being dictated by the particular mixing apparatus used.

Regarding the rotation rates, rates such as claimed would have been obvious to one of ordinary skill in the art being dictated by the mixing apparatus and the nature of the rubber used.

Regarding the process oils, oils such as claimed are notoriously well known in the rubber processing art and would have been obvious to one of ordinary skill in the art.

Claims 69 and 70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher et al in view of Mukai et al.

Fisher et al is discussed above. This reference fails to explicitly recite end uses for the regenerated rubber. Mukai et al discloses the use of regenerated rubber for automotive applications such as hoses.

Claims 5, 7, 9 and 38-40 and 71 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Cain whose telephone number is (571) 272-1118. The examiner can normally be reached on M-F from 10:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on 571 272-1110. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward J. Cain
Primary Examiner
Art Unit 1714

